GE GE □□□ Series Service Manual

IS200TRPGH1BCC

1. Description

Technical Specifications

2. Specifications

Specification	Value
Model	**Number: IS200TRPGH1BCC**
Manufactured	**By: GE**
Family	**ID: Mark VI**
Board	**Function: Gas Turbine Primary Trip Terminal Board**
Controlled	**By: PTUR/YTUR**
Magnetic	**Relays: 9**
Voting	**Circuits: 3**
Geiger-Mueller	**Inputs: 8**
Trip	**Solenoids: 3**
Application	**Compatibility: TMR**

3. Product Information

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SPECIFICATIONS

Part Number: IS200TRPGH1B IS200TRPGH1BCC

Manufacturer: General Electric

Series: Mark VI

Product Type: Terminal Board

Trip Solenoids: 3

Solenoid Rated Voltage/Current: 125 V dc

Solenoid Response Time: L/R time constant is 0.1 sec

Current Suppression: Metal oxide varistor

Control Relay Coil Voltage Supply: 28 V

Flame Detector Supply Voltage/Current: 335 V dc

Flame Detectors: 8

Availability: In Stock

Country of Origin: United States

Manual: GEH-6421J

FUNCTIONAL DESCRIPTION

IS200TRPGH1B is a Primary Trip Terminal Board manufactured and designed by General Electric as part of the Mark VI Series used in gas turbine control systems. The I/O controller regulates the TRPG terminal board. Three voting circuits in TRPG feature nine magnetic relays that connect to three trip solenoids, or Electrical Trip Devices (ETD). The primary and emergency sides of the interface to the ETDs are formed by the TRPG and TREG working together. For gas turbine applications, TRPG also accepts inputs from eight Geiger-Mueller flame detectors. There are two board types as follows:

The H1A and H1B versions include three voting relays built into each trip solenoid for TMR applications.

For simplex applications, the H2A and H2B versions have one relay per trip solenoid.

MARK VI SYSTEMS:

The VTUR board interfaces with the TRPG terminal board in Mark VI systems. TRPG is connected to the VME rack, which houses the VTUR board, through cables with molded plugs. Systems using simplex and TMR are both supported.

MARK VIe SYSTEMS:

The PTUR packs on TTURH1C control TRPG in Mark VIe systems. The D-type connectors on TTURH1C, which is connected to TRPG, accept the I/O packs as input. Systems using simplex and TMR are both supported.

About the IS200TRPGH1B IS200TRPGH1BCC

The IS200TRPGH1B is a device which is a part of the Mark VI series by General Electric or GE. The Mark VI is one of the series in the Mark lineup by GE.

The IS200TRPGH1B is a PCB or printed circuit board with a variety of different components. Two (2) large black terminal blocks are featured on the left side of the IS200TRPGH1B. Both of these terminal blocks contain twenty-four (24) silver metal terminals which are numbered from one (1) through twenty-four (24) and twenty-five (25) through forty-eight (48). A variety of capacitors are located on the bottom half of the IS200TRPGH1B. A vertical line of eight (8) solid yellow capacitors is arranged at the bottom of the IS200TRPGH1B in the center of the board. To the left of these yellow capacitors, there are two (2) vertical rows of small white capacitors. These rows are situated parallel to each other. They contain a total of sixteen (16) capacitors. On the right side of the bottom of the IS200TRPGH1B, there is a white block of connector ports. Twelve (12) small ports are contained within this block. Three (3) more of these white connectors which each have three (3) ports are aligned vertically below this. Three (3) connector ports may be found on the right border of the IS200TRPGH1B. These connector ports have been arranged in a vertical line. Every connector port contains thirty-seven (37) “female” ports. The IS200TRPGH1B features a number of small-sized integrated circuits. The integrated circuits are attached to the IS200TRPGH1B in various places.